

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20)

DATE OF PREP. 2/82

Section I

MANUFACTURER'S NAME BOSTIK WEST, DIVISION OF EMHART CORPORATION

STREET ADDRESS 20846 S. NORMANDIE AVE. CITY, STATE, AND ZIP CODE TORRANCE, CA

EMERGENCY TELEPHONE NO. (213) 320-6800

PRODUCT CLASS EPOXY

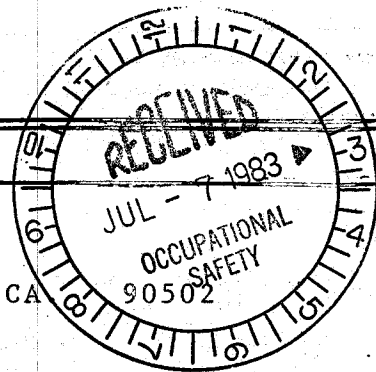
MANUFACTURERS CODE IDENTIFICATION 463-3-101

DPM-110-36118 Gray - FLAT

Catalyst: CA-118

TRADE NAME BOSTIK

Mix Ratio: 3 parts 463-3-101(Base) to 1 part CA-118 by volume.



Section II - HAZARDOUS INGREDIENTS

INGREDIENT	CAS NO.	PERCENT (Wt.)	TLV		LEL	VAPOR PRESSURE
			PPM	mg/M ³		
463-3-101(base Only)						
Cellosolve Acetate	111-15-9	10-15	100		1.7	2.0
Methyl Ethyl Ketone	78-93-3	10-15	200		1.8	70.0
Toluene	108-88-3	<5.0	200		1.2	22.0
Xylene	1330-20-7	<5.0	100		1.0	7.0
Butyl Acetate	123-86-4	<5.0	150		1.7	3.0
Butyl Cellosolve	111-76-2	<5.0	50		1.1	1.0
Butyl Alcohol	71-36-3	<1.0	100		1.7	4.0

Section III - PHYSICAL DATA

BOILING RANGE 176-340° F. VAPOR DENSITY ☒ HEAVIER ☐ LIGHTER THAN AIR

EVAPORATION RATE ☐ FASTER ☒ SLOWER THAN ETHER PERCENT VOLATILE BY VOLUME 60% WEIGHT PER GALLON 10.7 lbs.

Section IV - FIRE AND EXPLOSION HAZARD DATA

DOT CATEGORY Red Label, Flammable FLASH POINT (Min) 23° F. Tag Closed Cup LEL 1.0

EXTINGUISHING MEDIA Exclude air-Use foam, CO₂, steam, water fog, dry chemicals. Do not use water.

UNUSUAL FIRE AND EXPLOSION HAZARDS Vapor forms explosive mixture with air between upper and lower explosion limits.

SPECIAL FIRE FIGHTING PROCEDURES Do not use water, exclude air, use water spray to cool fire exposed surfaces and to protect personnel.

Section V – HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE : See Section II

EFFECTS OF OVEREXPOSURE: Headache, nausea, dizziness. Breathing vapor will be irritating to nose, throat and eyes.

EMERGENCY AND FIRST AID PROCEDURES Skin Exposure: Wash affected area with soap & water.
Eye Exposure: Flush with water for at least 15 minutes, consult physician.
Ingestion: Consult physician immediately.
Inhalation: Remove victim to fresh air, consult physician.

Section VI – REACTIVITY DATA

STABILITY ☐ UNSTABLE ☒ STABLE

CONDITIONS TO AVOID : Storage at high temperatures.

INCOMPATIBILITY (Materials to avoid) Strong oxidizing agents, Inorganic acids, Sparks & open flame.

HAZARDOUS DECOMPOSITION PRODUCTS : By fire, CO, CO₂, Oxides of Nitrogen.

Avoid contact with water, alcohols, amines & other compounds which react with isocyanates.

HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR

CONDITIONS TO AVOID

Section VII – SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED : Eliminate sources of ignition and clear fumes from area. Prevent liquid from entering sewers, water sources, or low areas. Keep unnecessary personnel away. Shut off source, if possible to do so without hazard. Contain spilled liquid with sawdust or oil absorbing compound. Wash

WASTE DISPOSAL METHOD area with detergent & water. Consult disposal expert & ensure conformity with local regulations.

Section VIII – SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Use approved respiratory protection such as an air-supplied mask if used in non-ventilated area.

Mechanical: Explosion-proof ventilation equipment. No smoking or open lights.

VENTILATION Face velocity > 60 fpm in confined area.

PROTECTIVE GLOVES : Chemically resistant gloves.

EYE PROTECTION : Chemical splash goggles or face shield.

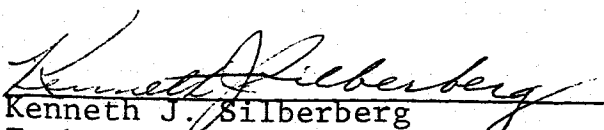
OTHER PROTECTIVE EQUIPMENT : Eye bath & safety shower.

Section IX – SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING : Material is sensitive to moisture and should be kept in tightly closed containers.

OTHER PRECAUTIONS

All handling equipment should be electrically grounded. Treat as a very flammable liquid.

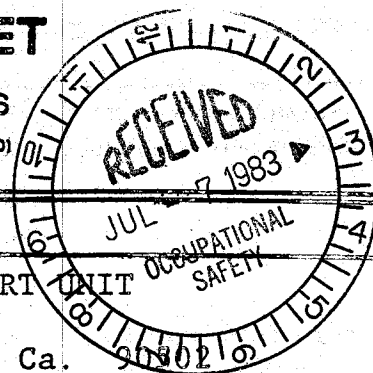

Kenneth J. Silberberg
Technical Administrative Manager

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20)

DATE OF PREP 10-81



Section I

MANUFACTURER'S NAME BOSTIK WEST, DIV. OF USM CORPORATION, AN EMHART UNIT

STREET ADDRESS 20846 So. Normandie Ave. CITY, STATE AND ZIP CODE Torrance, Ca. 90502

EMERGENCY TELEPHONE NO. (213) 320-6800

PRODUCT CLASS AMINE ABDUCT.

MANUFACTURERS CODE IDENTIFICATION CA-118

Catalyst for: 453-3-Series, 463-3-Series
463-3-8, 454-3-Series. Mix Ratio: 3 parts
Base to 1 part CA-118 by volume.

TRADE NAME BOSTIK

Section II - HAZARDOUS INGREDIENTS

INGREDIENT	CAS No.	PERCENT (WT.)	TLV		LEL	VAPOR PRESSURE mm Hg.
			PPM	mg/M ³		
CA-118 Epoxy Catalyst						
Methyl ethyl ketone	78-93-3	25-30	200		1.8	70.0
Butyl alcohol	71-36-3	20-25	100		1.7	4.0
Butyl acetate	123-86-4	20-25	150		1.7	8.0
Butyl cellosolve	111-76-2	10-15	50		1.1	1.0
Toluene	108-88-3	<5.0	200		1.2	22.0
Diethylenetriamine(DETA)	111-40-0	Trace	1.0		1.4	<1.0

Section III - PHYSICAL DATA

BOILING RANGE 176-340° F.

VAPOR DENSITY ☒ HEAVIER ☐ LIGHTER THAN AIR

EVAPORATION RATE ☐ FASTER ☒ SLOWER THAN ETHER

PERCENT VOLATILE
BY VOLUME 87%

WEIGHT PER
GALLON 7.0 lbs.

Section IV - FIRE AND EXPLOSION HAZARD DATA

DOT CATEGORY Red Label, Flammable (Min) FLASH POINT 23° F. Tag Closed Cup LEL 1.1

EXTINGUISHING MEDIA Exclude air - Use foam, CO₂, steam, water fog, dry chemicals. Do not use water.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapor forms explosive mixture with air between upper and lower explosion limits.

SPECIAL FIRE FIGHTING PROCEDURES

Do not use water, exclude air, use water spray to cool fire exposed surfaces and to protect personnel.

Section V – HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE See Section II

EFFECTS OF OVEREXPOSURE Headache, nausea, dizziness. Breathing vapor will be irritating to nose, throat, and eyes.

EMERGENCY AND FIRST AID PROCEDURES : Skin Exposure: Wash affected area with soap and water. Eye Exposure: Flush with water for at least 15 minutes, consult physician. Ingestion: Consult physician immediately. Inhalation: Remove victim to fresh air, consult physician.

Section VI – REACTIVITY DATA

STABILITY ☐ UNSTABLE ☒ STABLE

INCOMPATIBILITY (Materials to avoid) Strong oxidizing agents. CONDITIONS TO AVOID Storage at high temperatures. Sparks & open flame.

HAZARDOUS DECOMPOSITION PRODUCTS

On combustion CO, CO₂, Aldehydes and other organics, oxides of nitrogen.

HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR

CONDITIONS TO AVOID

Section VII – SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate sources of ignition and clear fumes from area. Prevent liquid from entering sewers, water sources, or low areas. Keep unnecessary personnel away. Shut off source, if possible to do so without hazard. Contain spilled liquid with sawdust, sand or oil absorbing compound. Wash area with detergent & water. Consult disposal expert and ensure conformity with local regulations.

Section VIII – SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Use approved respiratory protection such as an air-supplied mask if used in non ventilated area.

Mechanical: Explosion-proof ventilation equipment. No smoking or open lights.

VENTILATION : Face velocity > 60fpm in confined area.

PROTECTIVE GLOVES Chemically resistant gloves.

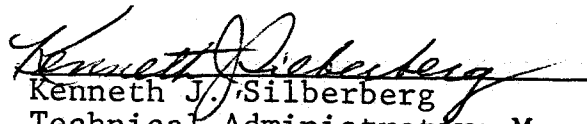
EYE PROTECTION Chemical splash goggles or face shield.

OTHER PROTECTIVE EQUIPMENT Eye bath & Safety shower.

Section IX – SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING : Keep containers closed when not in use. Do Not handle or store near flame, heat or strong oxidants. Adequate ventilation required. Containers of this product may be hazardous when emptied -these OTHER PRECAUTIONS containers retain product residues (vapor, liquid, etc.).

All handling equipment should be electrically grounded. Treat as a very flammable liquid.


Kenneth J. Silberberg
Technical Administrative Manager